ICWall
Collaborative Blackboard

Vrije Universiteit, Amsterdam

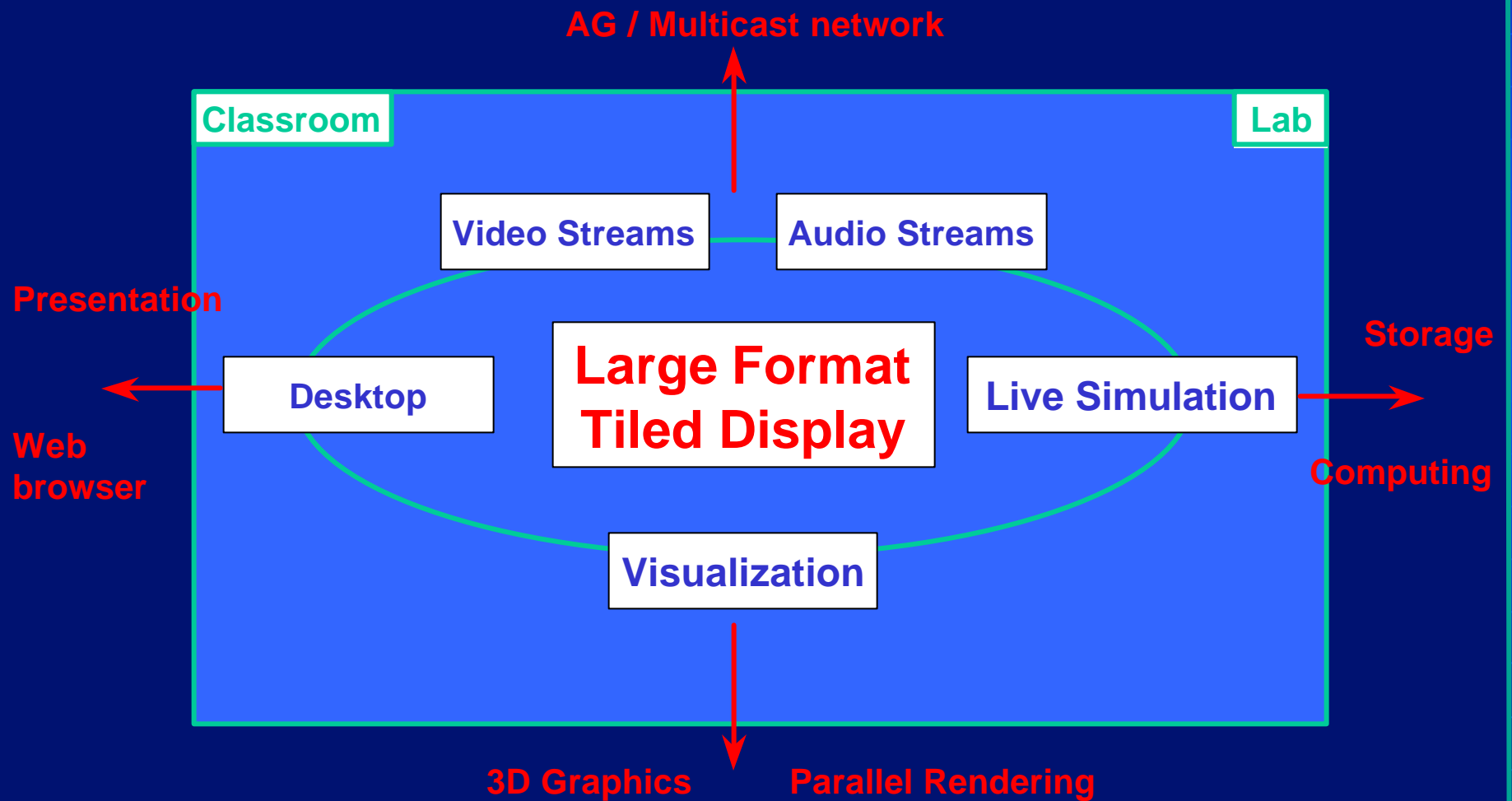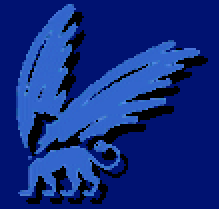*Hans Spoelder, Luc Renambot, Henri Bal,*

Desmond Germans, Tom van der Schaaf

Collaboration
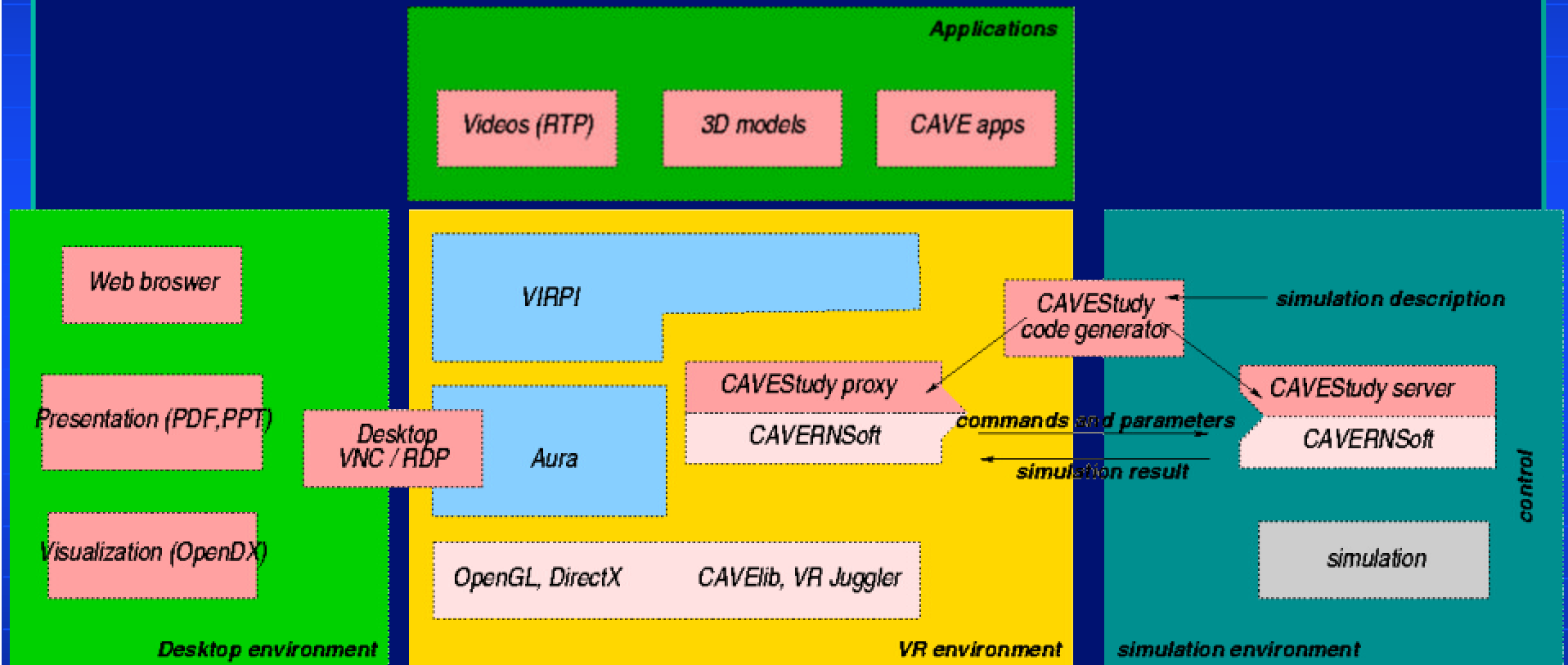
- *Collaboration between collegues*

- *Collaboration between a teacher and students*

- *Collaboration as in remote visualization*

- *Collaboration in an AG session*

- *Putting it all together…*

**Tiled display for Education
and Visualization**

Architecture

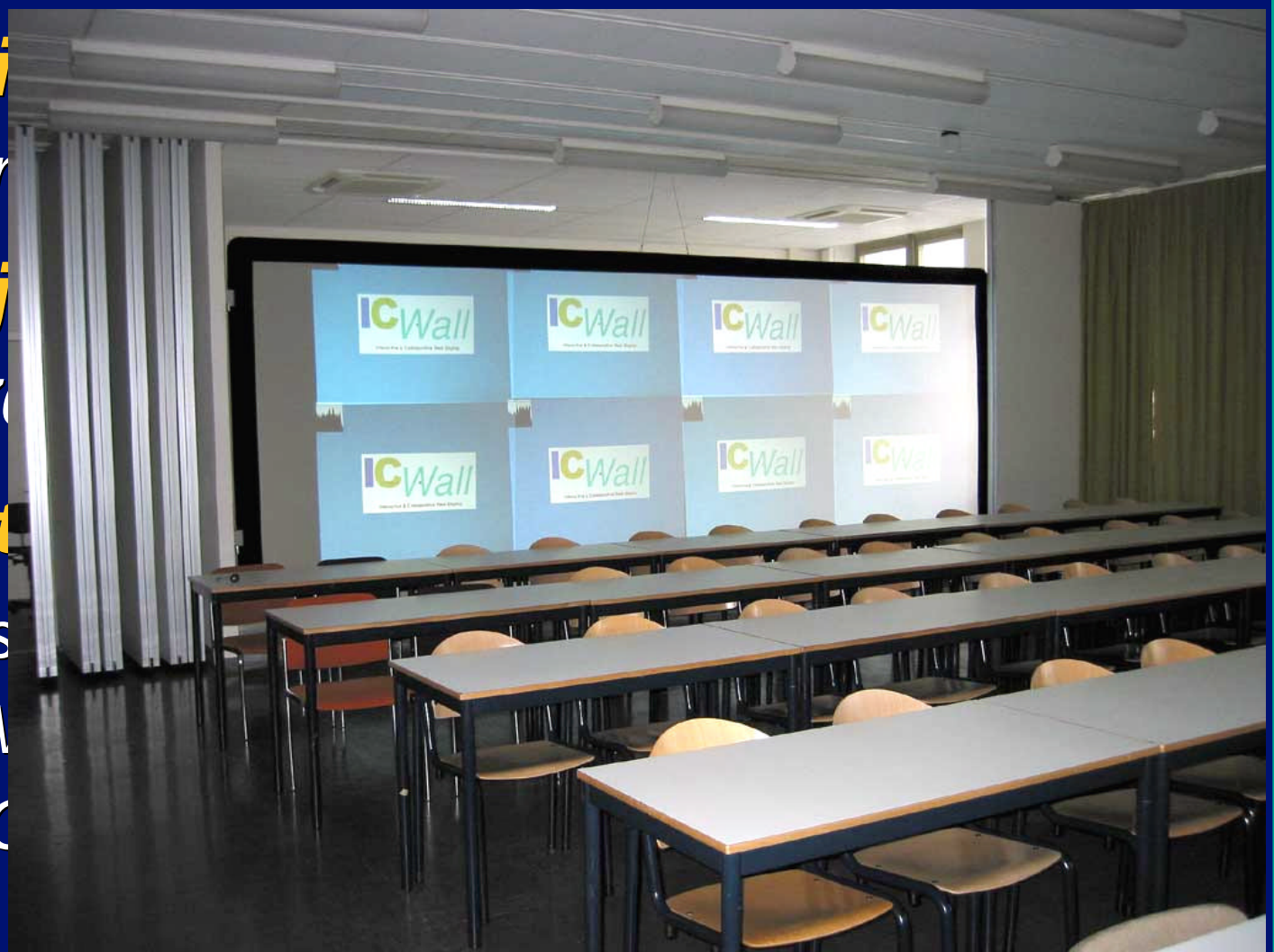**AG / Multicast network**

Classroom

Lab

Video Streams

Audio Streams

Presentation

Storage

Desktop

Large Format Tiled Display

Live Simulation

Web browser

Computing

Visualization

3D Graphics

Parallel Rendering

Technical side
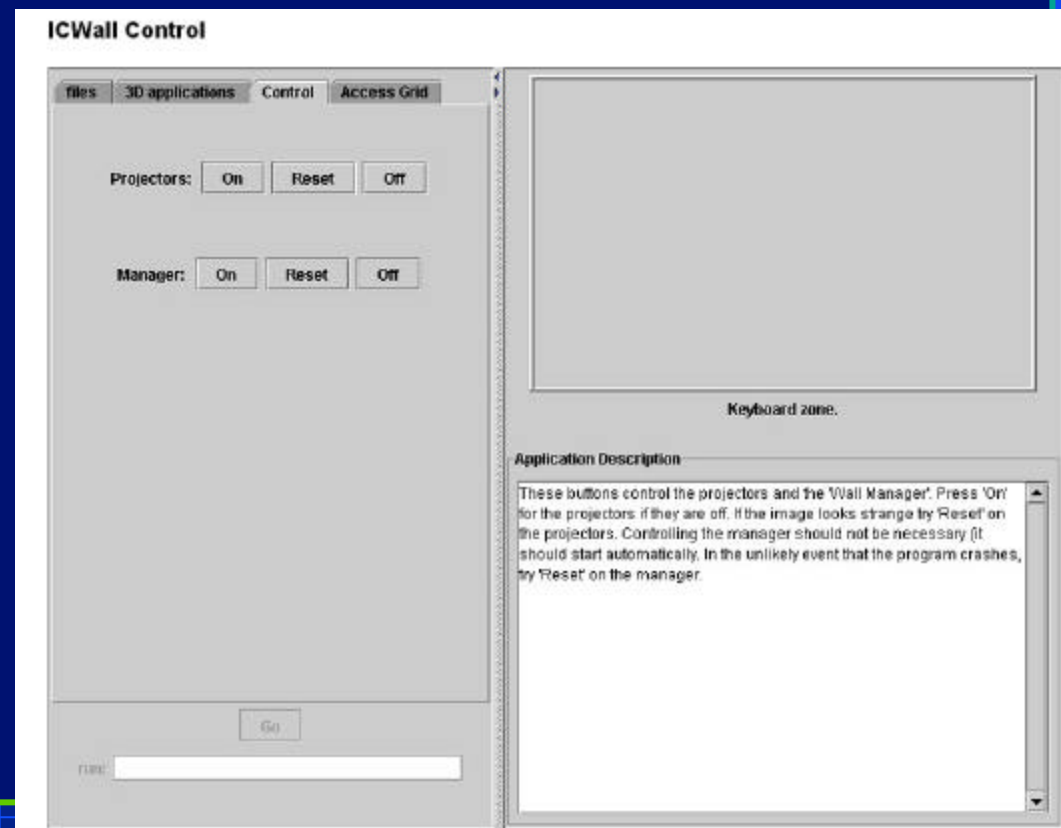
Setup

- **Screen i**
  - *Back-pr*
- **4x2 proj**
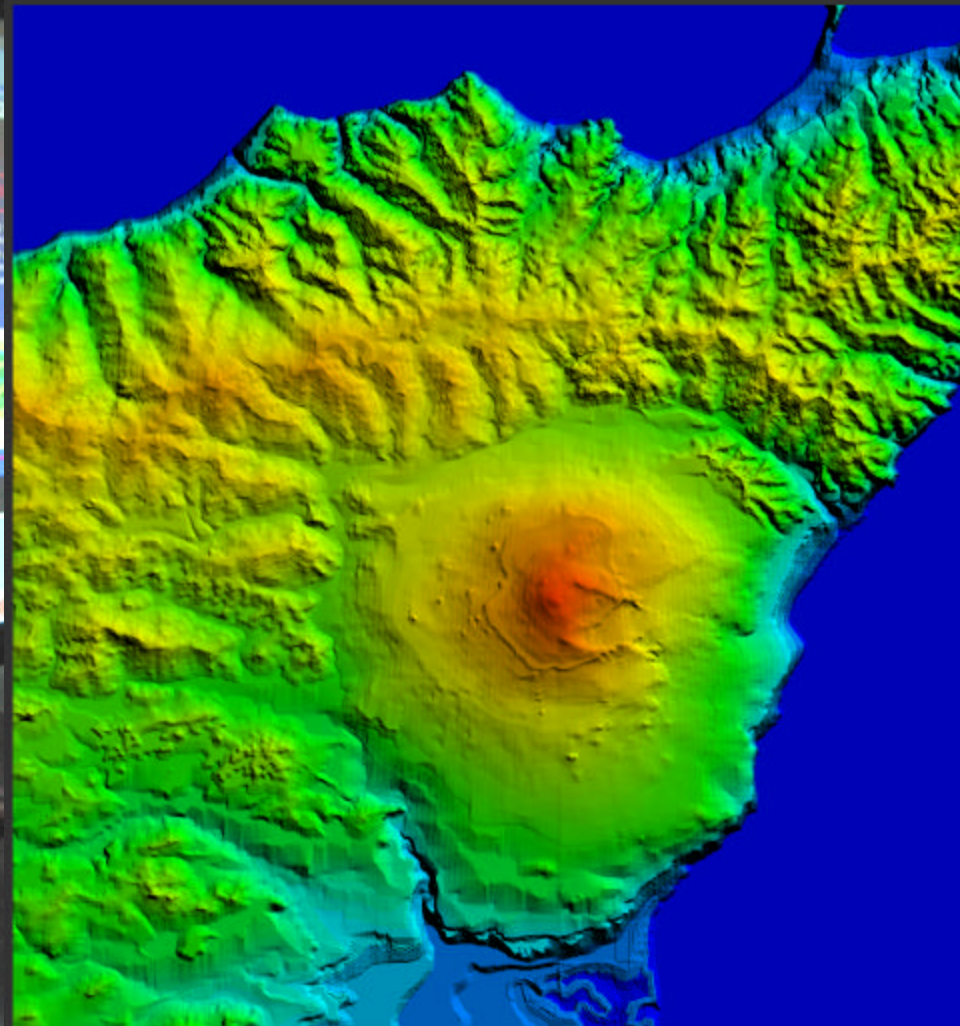 - *1024x7*
- **PC clust**
  - *8 nodes*
  - *Dual AM*
  - *Nvidia C*

Interaction / Control

- *Plasma screen + Smartboard*

- *Web interface*

- *Wireless laptop*

- *PDA*

- *Wireless Gamepad*

ICWall Control

| files | 3D applications | Control | Access Grid |

Projectors: [On] [Reset] [Off]

Manager: [On] [Reset] [Off]

Keyboard zone.

Application Description

These buttons control the projectors and the 'Wall Manager'. Press 'On' for the projectors if they are off. If the image looks strange try 'Reset' on the projectors. Controlling the manager should not be necessary (it should start automatically. In the unlikely event that the program crashes, try 'Reset' on the manager.

[Go]

run:

Discussion: Earth Sciences

Lecture: Dentistry

Steering: Theoretical Physics
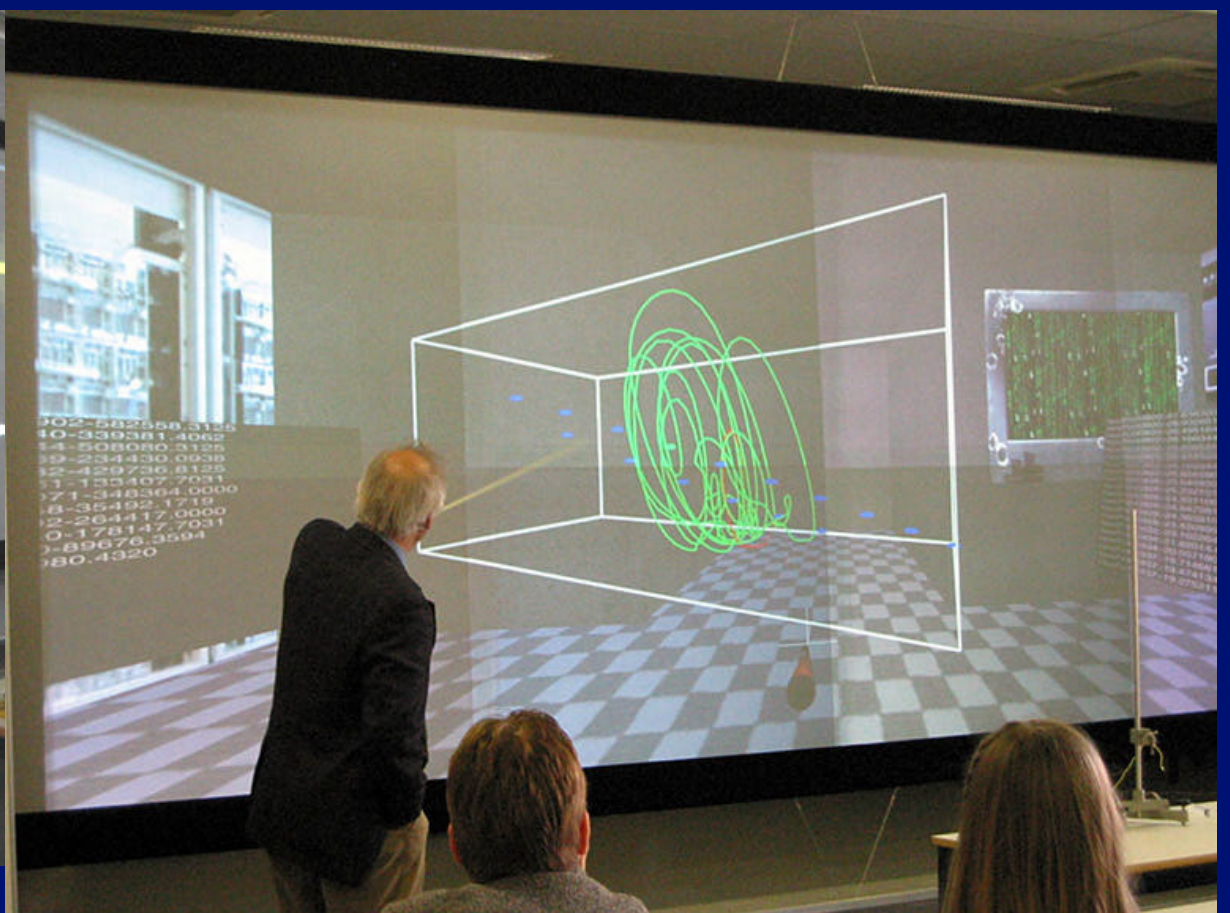
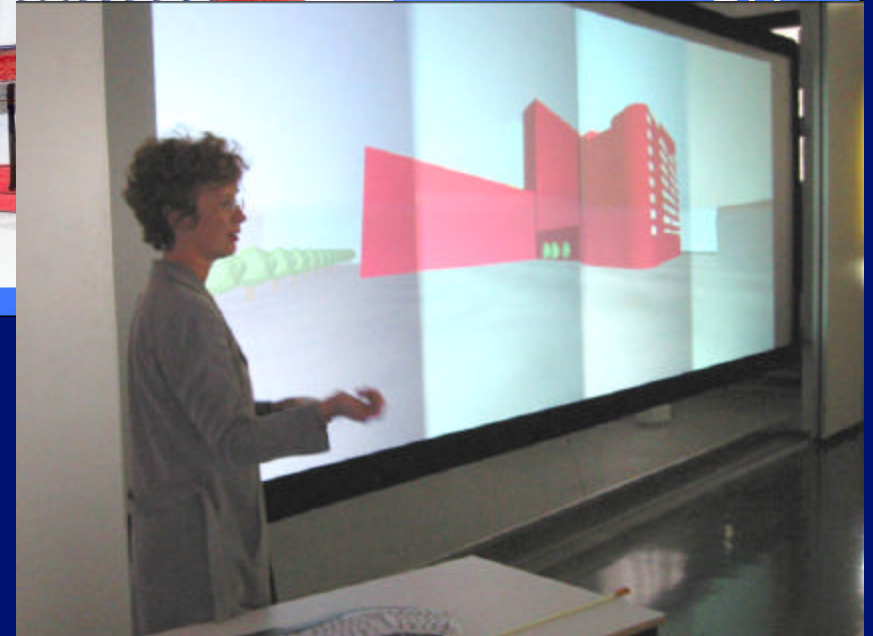# *Mixing apps*: Human Motion Science

Review: Architecture

2004

OZW en

Access Grid

- *Cluster over multicast*
- *Audio on the front-end*
- *Videos*
  - *VIC over VNC for a few streams*
  - *Native RTP stack*
    - Local decoding and display
    - Space for ~10 D1 video streams
- *DPPT*
  - *Remote windows desktop (?)*

Future work

- *Next semester: regular lectures*
- *Native implementation of AG video*
- *Stereo over the whole surface*
- *Parallel rendering on the Grid*
  - *Computation, Rendering, Display*
- *Remote visualization*
  - *iGrid 2002, September, Amsterdam*

Information

- *renambot@cs.vu.nl*
- *http://www.icwall.org*
- *http://aura.sourceforge.net*

ICWall

Interactive & Collaborative Tiled-Display